

## ***Individual Proposal Report***

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**Title** Contaminant effects on smelt

**Number** E6

**Geographic Area** Delta

**Primary Stressor Addressed** Water Quality

**Project Type** Research

**Applicant Type** University

**Recommended Funding** \$437,000

**Cost Share** Various sources - in kind - undetermined \$

**Description** Research on the relative importance of contaminant effects relative to other potential sources of mortality for Delta smelt. Includes evaluations related to histopathology biomarkers of exposure and organ/tissue condition, biomarkers of DNA damage, and otolith growth rate analyses. Coordinated with efforts of the IEP Work Team. Recommend full funding of the proposal.

### **ERPP Linkage**

**Zone:** Sacramento-San Joaquin Delta and Suisun Marsh/North Bay

#### **Ecosystem Elements and Targets (T):**

##### **Contaminants**

- T-1 Reduce loading, concentrations, and bioaccumulation of contaminants of concern to ecosystem health in water, sediments, and tissues of fish and wildlife in the zone by 25-50%, as measured against current average levels (Volume II, Page 57)

##### **Delta Smelt**

- T-1 Meet goals of Native Fish Recovery Plan (1996), which include recovery goals tied to fall midwater trawl survey and distribution of catch in various zones of trawl survey (Volume II, Page 58)